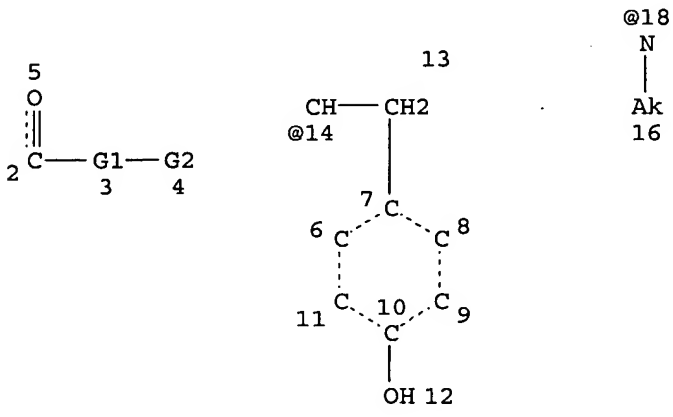
```
=> fil reg
FILE 'REGISTRY' ENTERED AT 07:49:09 ON 12 OCT 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   11 OCT 2005  HIGHEST RN 865062-68-6
DICTIONARY FILE UPDATES:  11 OCT 2005  HIGHEST RN 865062-68-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> d sta que l4
L1              STR
```

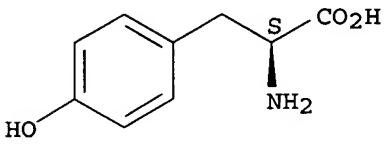



```
VAR G1=CH2/14
VAR G2=NH/18
NODE ATTRIBUTES:
```

```
CONNECT IS E1  RC AT  16
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC   6
NUMBER OF NODES IS  15

STEREO ATTRIBUTES: NONE
L2              SCR 2043
L4         7898 SEA FILE=REGISTRY SSS FUL L1 AND L2

100.0% PROCESSED  477946 ITERATIONS                          7898 ANSWERS
SEARCH TIME: 00.00.07


=> d his

     (FILE 'HOME' ENTERED AT 06:11:09 ON 12 OCT 2005)
                DEL HIS

     FILE 'REGISTRY' ENTERED AT 06:12:47 ON 12 OCT 2005
L1              STR
L2              SCR 2043
L3           47 S L1 AND L2
L4         7898 S L1 AND L2 FUL
                SAV L4 GEORGE086B/A
L5          149 S (60-18-4 OR 556-02-5 OR 556-03-6)/CRN AND L4
L6            6 S L5 AND 1/NC
L7            1 S L5 AND NA/ELS AND 2/NC
L8            1 S L5 AND 67-56-1/CRN
L9            2 S L5 AND C3H7NO2 NOT ALANINE
L10           4 S L5 AND C2H5NO2
L11        7749 S L4 NOT L5
L12          13 S L11 AND C10H13NO3
L13           4 S L12 AND CL/ELS
L14           3 S L13 AND 1/NR
L15        7736 S L11 NOT L12
L16             STR
L17          23 S L16 CSS SAM SUB=L4
L18         442 S L16 CSS FUL SUB=L4
                SAV L18 GEORGE086C/A
L19         371 S L18 AND C2H5NO2
L20         204 S L19 AND NR>=1
L21           4 S L5 AND L20
L22         167 S L19 NOT L20
L23          12 S L22 AND 1/NC
L24           2 S L23 NOT (D/ELS OR 15N OR LABELED OR 13C#)
L25          11 S L22 AND (CL OR BR)/ELS  AND 2/NC
L26           2 S L25 AND (BRH OR CLH) NOT D/ELS
L27           7 S L22 AND C3H7NO2 AND C2H5NO2 AND 2/NC
L28           1 S L27 NOT ALANINE
L29             SCR 2068
L30          50 S L29 SAM SUB=L4
L31        3208 S L29 FUL SUB=L4
                SAV L31 GEORGE086D/A
L32        1632 S L31 NOT (C2H4O OR C3H6O)
L33         305 S L32 AND 1/NR AND 46.150.18/RID
L34           5 S L33 AND C9H9NO2
```

```
L35           4 S L34 NOT ACETYL
L36         300 S L33 NOT L34
L37          77 S L36 AND 4 HYDROXY
L38           1 S L37 AND C11H12N2O3
L39         223 S L36 NOT L37
L40        1327 S L32 NOT L33-L39
L41         665 S L40 AND NR>=1
L42         662 S L40 NOT L41
L43         189 S L42 AND 1/N
L44         156 S L43 NOT (S OR P OR SI)/ELS
L45          55 S L44 AND (C6H11NO OR C5H9NO OR C3H5NO OR C4H7NO OR C2H3NO)
L46          48 S L45 AND 1/NC
L47          13 S L46 AND ("(C6H11NO)N" OR "(C5H9NO)N" OR "(C4H7NO)N" OR "(C3H5
L48           6 S L47 NOT (LABELED OR D/ELS OR 15N OR 13C)
L49         473 S L42 NOT L43
L50           9 S L49 AND (C5H8N2O2 OR C7H11N3O3)
                SEL RN 3 9
L51           2 S E1,E2
L52          31 S L6-L9,L14,L24,L26,L28,L35,L38,L48,L51
                SAV L52 GEORGE086E/A
                ACT GEORGE086/A
               ---------
L53 (         66)SEA FILE=REGISTRY ABB=ON  PLU=ON  C8H14N4O5/MF
L54 (         59)SEA FILE=REGISTRY ABB=ON  PLU=ON  C9H16N4O5/MF
L55 (        125)SEA FILE=REGISTRY ABB=ON  PLU=ON  (L53 OR L54)
L56 (         61)SEA FILE=REGISTRY ABB=ON  PLU=ON  L55 AND NR>=1
L57 (         64)SEA FILE=REGISTRY ABB=ON  PLU=ON  L55 NOT L56
L58 (          3)SEA FILE=REGISTRY ABB=ON  PLU=ON  L57 AND METHYL ESTER
L59 (          8)SEA FILE=REGISTRY ABB=ON  PLU=ON  L57 AND GLYCYLGLYCYLGLYCYL
L60 (          8)SEA FILE=REGISTRY ABB=ON  PLU=ON  (L58 OR L59) NOT D/ELS
L61 (          6)SEA FILE=REGISTRY ABB=ON  PLU=ON  L60 NOT ALANINE
L62 (          2)SEA FILE=REGISTRY ABB=ON  PLU=ON  L61 NOT (145105-82-4/BI OR 18
L63 (          9)SEA FILE=REGISTRY ABB=ON  PLU=ON  C36H38N4O9/MF AND 46.150.18/R
L64 (          1)SEA FILE=REGISTRY ABB=ON  PLU=ON  L63 AND TYROSYL
L65 (          2)SEA FILE=REGISTRY ABB=ON  PLU=ON  C37H40N4O9/MF AND 46.150.18/R
L66 (          1)SEA FILE=REGISTRY ABB=ON  PLU=ON  L65 AND TYROSYL
L67 (          4)SEA FILE=REGISTRY ABB=ON  PLU=ON  (L62 OR L64 OR L66)
L68 (         17)SEA FILE=REGISTRY ABB=ON  PLU=ON  (13075-43-9/CRN OR 637-84-3/C
L69 (          6)SEA FILE=REGISTRY ABB=ON  PLU=ON  L68 NOT (CONJUGATE OR MXS/CI
L70 (          5)SEA FILE=REGISTRY ABB=ON  PLU=ON  L69 NOT ALANINE
L71            9 SEA FILE=REGISTRY ABB=ON  PLU=ON  (L67 OR L70)
               ---------
                ACT GEORGE086A/A
               ---------
L72 (        335)SEA FILE=REGISTRY ABB=ON  PLU=ON  (556-02-5/CRN OR 556-03-6/CRN
L73 (        146)SEA FILE=REGISTRY ABB=ON  PLU=ON  L72 AND PMS/CI
L74 (          1)SEA FILE=REGISTRY ABB=ON  PLU=ON  L73 AND CH4O
L75 (         43)SEA FILE=REGISTRY ABB=ON  PLU=ON  C3H7NO2 AND L73
L76 (          2)SEA FILE=REGISTRY ABB=ON  PLU=ON  L75 NOT ALANINE
L77 (          6)SEA FILE=REGISTRY ABB=ON  PLU=ON  L73 AND C9H11NO3 AND 1/NC
L78 (          3)SEA FILE=REGISTRY ABB=ON  PLU=ON  (25667-16-7/BI OR 31724-37-5/
L79           12 SEA FILE=REGISTRY ABB=ON  PLU=ON  (L74 OR L76 OR L77 OR L78)
               ---------
L80           19 S L52 NOT L71,L79

     FILE 'HCAPLUS' ENTERED AT 07:46:43 ON 12 OCT 2005
L81          817 S L80
L82            1 S L81 AND (LOREAL? OR OREAL? OR L()OREAL?)/PA,CS
L83            1 S L81 AND (PHILIPPE M? OR PHILIPE M? OR PHILLIPPE M? OR PHILLIP
L84            1 S L82,L83
```

```
L85            5 S L81 AND COSMETIC?/SC,SX,CW,CT,BI
L86            9 S L81 AND COSMETICS+OLD,NT,PFT,RT/CT
L87            1 S L81 AND ?WRINKL?
L88           10 S L82-L87
L89            3 S L80(L)COS/RL
L90           10 S L88,L89

     FILE 'REGISTRY' ENTERED AT 07:49:09 ON 12 OCT 2005

=> d ide can tot l52

L52  ANSWER 1 OF 31  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   462117-51-7  REGISTRY
ED   Entered STN:  17 Oct 2002
CN   L-Tyrosine, homopolymer, methyl ester (9CI)  (CA INDEX NAME)
FS   STEREOSEARCH
MF   (C9 H11 N O3)x . C H4 O
PCT  Polyamide, Polyamide formed, Polyester, Polyester formed
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL

**RELATED POLYMERS AVAILABLE WITH POLYLINK**

     CM   1

     CRN  67-56-1
     CMF  C H4 O


H3C—OH


     CM   2

     CRN  25619-78-7
     CMF  (C9 H11 N O3)x
     CCI  PMS

          CM   3

          CRN  60-18-4
          CMF  C9 H11 N O3

Absolute stereochemistry.  Rotation (-).
```

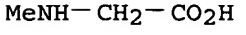



```
               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  137:221793

L52  ANSWER 2 OF 31  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   457625-05-7  REGISTRY
```

ED Entered STN: 01 Oct 2002
CN L-Tyrosine, polymer with L-lysine and N-methylglycine (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF **(C9 H11 N O3 . C6 H14 N2 O2 . C3 H7 N O2)x**
CI PMS
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

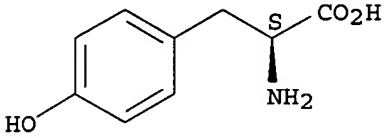
CRN 107-97-1
CMF C3 H7 N O2



CM 2

CRN 60-18-4
CMF C9 H11 N O3

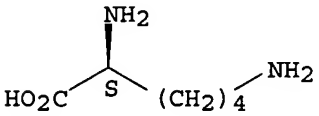
Absolute stereochemistry. Rotation (-).



CM 3

CRN 56-87-1
CMF C6 H14 N2 O2

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L52 ANSWER 3 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 457625-04-6 REGISTRY
ED Entered STN: 01 Oct 2002
CN L-Tyrosine, polymer with N-methylglycine (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF **(C9 H11 N O3 . C3 H7 N O2)x**
CI PMS

PCT Polyamide, Polyamide formed, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

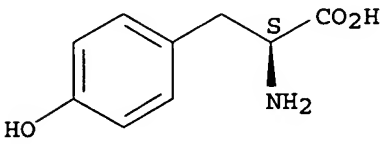
CRN 107-97-1
CMF C3 H7 N O2

MeNH—CH_2—CO_2H

CM 2

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

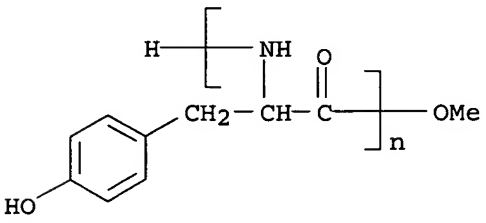


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L52 ANSWER 4 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 457625-03-5 REGISTRY
ED Entered STN: 01 Oct 2002
CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]], α-hydro-ω-methoxy- (9CI) (CA INDEX NAME)
MF **(C9 H9 N O2)n C H4 O**
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK



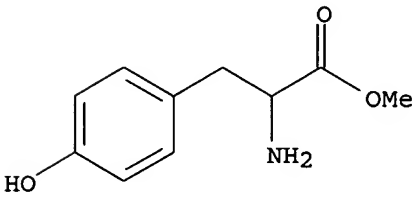
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:221793

L52 ANSWER 5 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 285133-90-6 REGISTRY
ED Entered STN: 11 Aug 2000
CN Tyrosine, methyl ester, hydrochloride, homopolymer (9CI) (CA INDEX NAME)
MF **(C10 H13 N O3 . Cl H)x**
CI PMS
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 68697-61-0 (18869-47-1)
CMF C10 H13 N O3 . Cl H



● HCl

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:63575

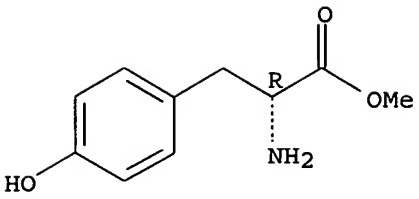
REFERENCE 2: 133:120844

L52 ANSWER 6 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 285133-89-3 REGISTRY
ED Entered STN: 11 Aug 2000
CN D-Tyrosine, methyl ester, hydrochloride, homopolymer (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF **(C10 H13 N O3 . Cl H)x**
CI PMS
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 3728-20-9 (3410-66-0)
CMF C10 H13 N O3 . Cl H

Absolute stereochemistry. Rotation (-).



● HCl

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:63575

REFERENCE 2: 133:120844

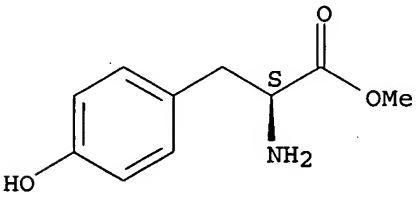
L52 ANSWER 7 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 285133-88-2 REGISTRY
ED Entered STN: 11 Aug 2000
CN L-Tyrosine, methyl ester, hydrochloride, homopolymer (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF **(C10 H13 N O3 . Cl H)x**
CI PMS
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
SR CA
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 3417-91-2 (1080-06-4)
CMF C10 H13 N O3 . Cl H

Absolute stereochemistry. Rotation (+).



● HCl

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:63575

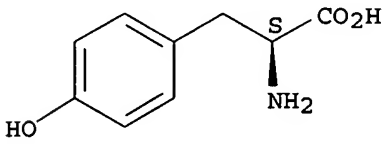
REFERENCE 2: 133:120844

L52 ANSWER 8 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 142847-49-2 REGISTRY
ED Entered STN: 07 Aug 1992
CN L-Tyrosine, hexamer (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF **(C9 H11 N O3)6**
CI PMS
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:252981

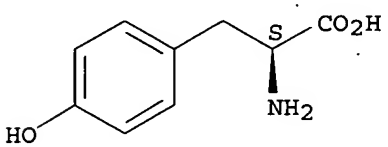
REFERENCE 2: 117:90965

L52 ANSWER 9 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 142847-48-1 REGISTRY
ED Entered STN: 07 Aug 1992
CN L-Tyrosine, trimer (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF **(C9 H11 N O3)3**
CI PMS
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).

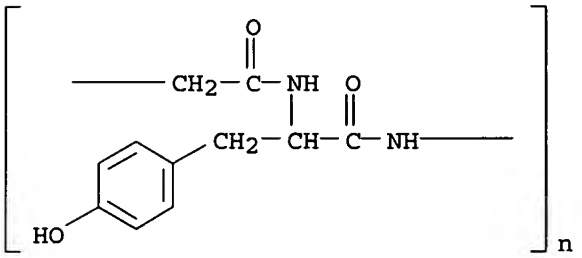


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 117:90965

L52 ANSWER 10 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 104491-06-7 REGISTRY
ED Entered STN: 04 Oct 1986
CN **Poly[imino[(2S)-2-[(4-hydroxyphenyl)methyl]-1-oxo-1,2-ethanediyl]imino(1-oxo-1,2-ethanediyl)] (9CI)** (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN **Poly[imino[2-[(4-hydroxyphenyl)methyl]-1-oxo-1,2-ethanediyl]imino(1-oxo-1,2-ethanediyl)], (S)-**
MF **(C11 H12 N2 O3)n**
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS, CASREACT

RELATED POLYMERS AVAILABLE WITH POLYLINK



3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 133:4946

REFERENCE 2: 106:214367

REFERENCE 3: 105:153528

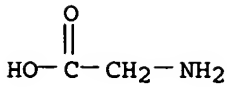
L52 ANSWER 11 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 94798-58-0 REGISTRY
ED Entered STN: 17 Feb 1985
CN Glycine, dimer, monohydrobromide (9CI) (CA INDEX NAME)
MF **(C2 H5 N O2)2 . Br H**
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

CM 1

CRN 32056-24-9
CMF (C2 H5 N O2)2
CCI PMS

CM 2

CRN 56-40-6
CMF C2 H5 N O2

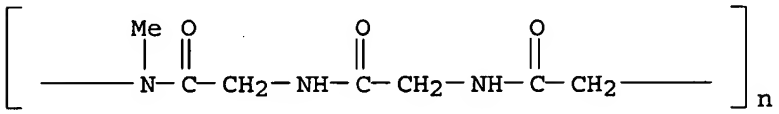


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 102:96019

L52 ANSWER 12 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN **62317-83-3** REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)imino(1-oxo-1,2-ethanediyl)imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)
MF (C7 H11 N3 O3)n
CI PMS
PCT Polyamide
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

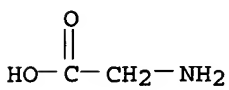
REFERENCE 1: 86:121935

L52 ANSWER 13 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 52825-25-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, hydrochloride, homopolymer (9CI) (CA INDEX NAME)
MF **(C2 H5 N O2 . Cl H)x**
CI PMS
PCT Polyamide, Polyamide formed
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 6000-43-7 (56-40-6)
CMF C2 H5 N O2 . Cl H



● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 81:106339

L52 ANSWER 14 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 51772-80-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN L-Tyrosine, homopolymer, sodium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Poly-L-tyrosine, sodium salt
FS STEREOSEARCH
MF **(C9 H11 N O3)x . x Na**
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

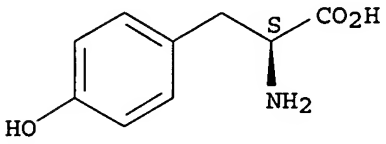
CM 1

CRN 25619-78-7
CMF (C9 H11 N O3)x
CCI PMS

CM 2

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

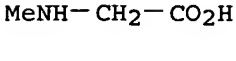
REFERENCE 1: 81:6797

L52 ANSWER 15 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 34012-45-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, N-methyl-, polymer with glycine (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, peptide with sarcosine (8CI)
CN Glycine, polymer with N-methylglycine (9CI)
CN Sarcosine, peptide with glycine (8CI)
OTHER NAMES:
CN Glycine-N-methylglycine copolymer
CN Glycine-N-methylglycine polymer
CN Glycine-sarcosine polymers
CN Poly(glycine, sarcosine)
DR 54006-88-1
MF **(C3 H7 N O2 . C2 H5 N O2)x**
CI PMS
PCT Polyamide, Polyamide formed

LC STN Files: CA, CAPLUS

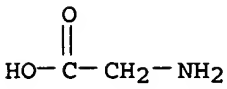
CM 1

CRN 107-97-1
CMF C3 H7 N O2



CM 2

CRN 56-40-6
CMF C2 H5 N O2



9 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:244331

REFERENCE 2: 92:6909

REFERENCE 3: 90:98785

REFERENCE 4: 84:90561

REFERENCE 5: 81:169808

REFERENCE 6: 79:19248

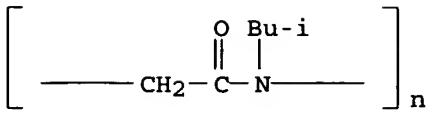
REFERENCE 7: 78:30359

REFERENCE 8: 77:62460

REFERENCE 9: 76:46498

L52 ANSWER 16 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33220-79-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[[(2-methylpropyl)imino](1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[(isobutylimino)carbonylmethylene] (8CI)
MF **(C6 H11 N O)n**
CI PMS
PCT Polyamide
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

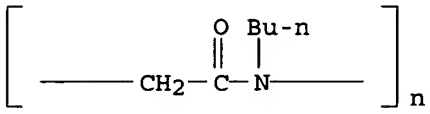


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:64315

L52 ANSWER 17 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33220-78-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[(butylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[(butylimino)carbonylmethylene] (8CI)
MF **(C6 H11 N O)n**
CI PMS
PCT Polyamide
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

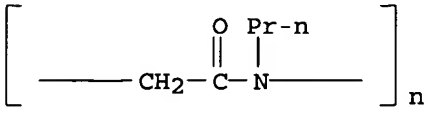


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:64315

L52 ANSWER 18 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33220-77-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[(propylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[(propylimino)carbonylmethylene] (8CI)
MF **(C5 H9 N O)n**
CI PMS
PCT Polyamide
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

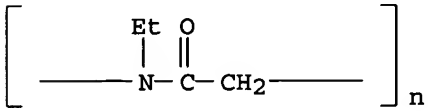


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:64315

L52 ANSWER 19 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33220-76-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[(ethylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[(ethylimino)carbonylmethylene] (8CI)
MF **(C4 H7 N O)n**
CI PMS
PCT Polyamide
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

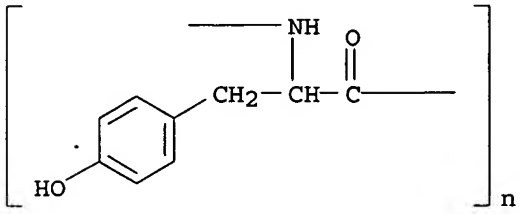


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:64315

L52 ANSWER 20 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 32109-39-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[imino[(1R)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[iminocarbonyl(p-hydroxyphenethylidene)], D- (8CI)
MF **(C9 H9 N O2)n**
CI PMS
PCT Polyamide
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 75:71444

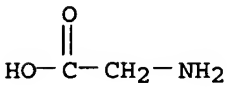
REFERENCE 2: 67:52214

L52 ANSWER 21 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN

RN 32056-24-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, dimer (9CI) (CA INDEX NAME)
MF **(C2 H5 N O2)2**
CI PMS, COM
LC STN Files: CA, CAPLUS

CM 1

CRN 56-40-6
CMF C2 H5 N O2



7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:430534

REFERENCE 2: 136:60498

REFERENCE 3: 130:287200

REFERENCE 4: 130:272151

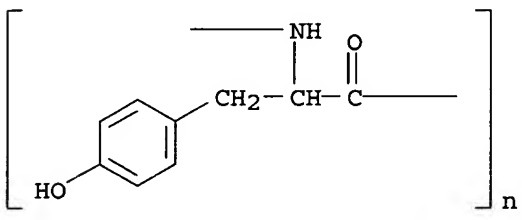
REFERENCE 5: 129:281263

REFERENCE 6: 129:20988

REFERENCE 7: 100:68725

L52 ANSWER 22 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 31724-37-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[imino[1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[iminocarbonyl(p-hydroxyphenethylidene)], DL- (8CI)
MF **(C9 H9 N O2)n**
CI PMS
PCT Polyamide
LC STN Files: ANABSTR, CA, CAPLUS, MEDLINE

RELATED POLYMERS AVAILABLE WITH POLYLINK



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 74:60908

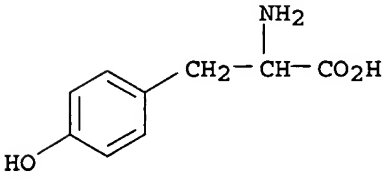
REFERENCE 2: 66:74411

L52 ANSWER 23 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 31630-26-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Tyrosine, DL-, peptides (8CI) (CA INDEX NAME)
OTHER NAMES:
CN Poly-DL-tyrosine
MF **(C9 H11 N O3)x**
CI PMS
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 556-03-6
CMF C9 H11 N O3



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 74:60908

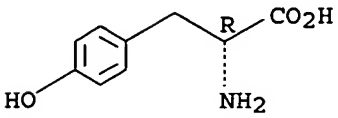
L52 ANSWER 24 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 30704-25-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN D-Tyrosine, homopolymer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Tyrosine, D-, peptides (8CI)
OTHER NAMES:
CN Poly-D-tyrosine
FS STEREOSEARCH
MF **(C9 H11 N O3)x**
CI PMS
PCT Polyamide, Polyamide formed
LC STN Files: CA, CAPLUS, CHEMCATS, CSCHEM, MSDS-OHS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 556-02-5
CMF C9 H11 N O3

Absolute stereochemistry.



4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 117:65865

REFERENCE 2: 117:43790

REFERENCE 3: 75:71444

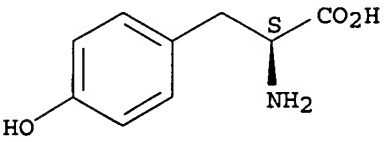
REFERENCE 4: 67:52214

L52 ANSWER 25 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 30442-80-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN L-Tyrosine, dimer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Tyrosine, L-, dimer (8CI)
FS STEREOSEARCH
DR 27476-39-7
MF **(C9 H11 N O3)2**
CI PMS
LC STN Files: CA, CAPLUS

CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:109944

REFERENCE 2: 117:90965

REFERENCE 3: 74:150934

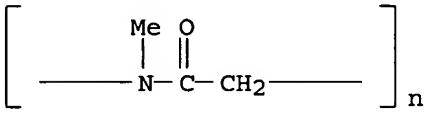
REFERENCE 4: 68:75092

REFERENCE 5: 66:103159

L52 ANSWER 26 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 26521-10-8 REGISTRY

ED Entered STN: 16 Nov 1984
CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[(methylimino)carbonylmethylene] (8CI)
OTHER NAMES:
CN Poly(N-methylglycine), sru
CN Polysarcosine
CN Polysarcosine, SRU
CN Sarcosine N-carboxyanhydride polymer, SRU
DR 56588-99-9, 83273-04-5, 31761-39-4
MF **(C3 H5 N O)n**
CI PMS
PCT Polyamide
LC STN Files: BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, EMBASE, TOXCENTER, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK



62 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
62 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:123968

REFERENCE 2: 139:338810

REFERENCE 3: 136:386877

REFERENCE 4: 133:282326

REFERENCE 5: 133:177538

REFERENCE 6: 126:171880

REFERENCE 7: 122:142534

REFERENCE 8: 117:90757

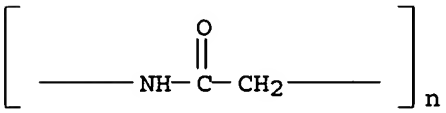
REFERENCE 9: 111:7903

REFERENCE 10: 109:73878

L52 ANSWER 27 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 25734-27-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly(iminocarbonylmethylene) (8CI)
OTHER NAMES:
CN Glycine cetyl ester polymer, SRU
CN Glycine homopolymer
CN Glycine homopolymer, SRU
CN Glycine N-carboxy anhydride polymer, SRU

CN Glycine polymer, SRU
CN Glycylglycine polymer, sru
CN Nylon 2
CN Poly(glycinamide), SRU
CN Poly(glycine N-carboxyanhydride), SRU
CN Poly(glycyl)
CN Polyglycine
CN Polyglycine, SRU
CN Poly[imino(2-oxo-1,2-ethanediyl)]
DR 121002-48-0, 25213-32-5, 93705-40-9, 75145-01-6, 88752-30-1, 408501-51-9
MF **(C2 H3 N O)n**
CI PMS
PCT Polyamide
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, EMBASE, IFICDB, IFIPAT, IFIUDB, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

614 REFERENCES IN FILE CA (1907 TO DATE)
35 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
614 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:281777

REFERENCE 2: 143:243699

REFERENCE 3: 143:224397

REFERENCE 4: 143:212165

REFERENCE 5: 143:179605

REFERENCE 6: 143:148954

REFERENCE 7: 143:128768

REFERENCE 8: 143:54978

REFERENCE 9: 143:40653

REFERENCE 10: 142:458269

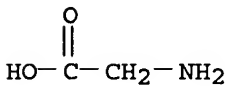
L52 ANSWER 28 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 25718-94-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glycine, homopolymer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, peptides (8CI)

OTHER NAMES:
CN β-Polyglycine
CN Glycine polymer
CN Polyglycine
CN Polyglycine homopolymer
CN Polyglycine I
CN Polyglycine II
CN Polyglycine peptide
DR 27755-98-2
MF **(C2 H5 N O2)x**
CI PMS, COM
PCT Polyamide, Polyamide formed
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CHEMCATS, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 56-40-6
CMF C2 H5 N O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

659 REFERENCES IN FILE CA (1907 TO DATE)
37 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
659 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:284695

REFERENCE 2: 143:281777

REFERENCE 3: 143:243699

REFERENCE 4: 143:224397

REFERENCE 5: 143:212165

REFERENCE 6: 143:179605

REFERENCE 7: 143:148954

REFERENCE 8: 143:128768

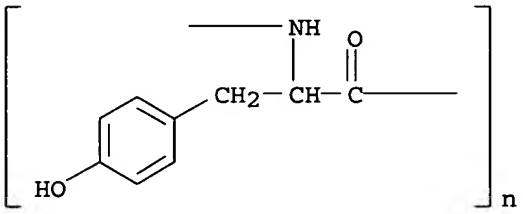
REFERENCE 9: 143:54978

REFERENCE 10: 143:40653

L52 ANSWER 29 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 25667-16-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]] (9CI)

(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[iminocarbonyl(p-hydroxyphenethylidene)], L- (8CI)
CN Poly[imino[1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]], (S)-
OTHER NAMES:
CN L-Tyrosine polymer, SRU
CN Poly(L-tyrosine), SRU
CN Polytyrosine
CN Polytyrosine, SRU
DR 26634-77-5, 439295-29-1
MF **(C9 H9 N O2)n**
CI PMS
PCT Polyamide
LC STN Files: BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, EMBASE, TOXCENTER, USPAT2, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

192 REFERENCES IN FILE CA (1907 TO DATE)
22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
192 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:286003

REFERENCE 2: 143:281777

REFERENCE 3: 143:235397

REFERENCE 4: 143:60253

REFERENCE 5: 143:48209

REFERENCE 6: 143:22438

REFERENCE 7: 142:458269

REFERENCE 8: 142:417211

REFERENCE 9: 142:406011

REFERENCE 10: 142:246307

L52 ANSWER 30 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN 25619-78-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN L-Tyrosine, homopolymer (9CI) (CA INDEX NAME)

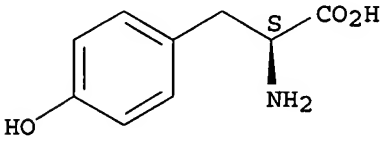
OTHER CA INDEX NAMES:
CN Tyrosine, L-, peptides (8CI)
OTHER NAMES:
CN L-Tyrosine polymer
CN Poly(L-tyrosine)
CN Polytyrosine
CN Tyrosine homopolymer
FS STEREOSEARCH
MF **(C9 H11 N O3)x**
CI PMS, COM
PCT Polyamide, Polyamide formed, Polyester, Polyester formed
LC STN Files: ADISNEWS, AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CHEMCATS, CIN, CSCHEM, DIOGENES, EMBASE, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 60-18-4
CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

245 REFERENCES IN FILE CA (1907 TO DATE)
23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
245 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:281777

REFERENCE 2: 143:235397

REFERENCE 3: 143:60253

REFERENCE 4: 143:48209

REFERENCE 5: 143:22438

REFERENCE 6: 143:3528

REFERENCE 7: 142:458269

REFERENCE 8: 142:417211

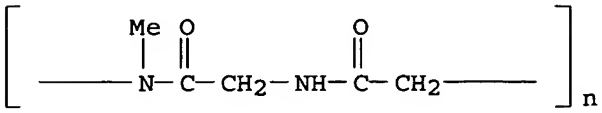
REFERENCE 9: 142:406011

REFERENCE 10: 142:356632

L52 ANSWER 31 OF 31 REGISTRY COPYRIGHT 2005 ACS on STN
RN **25249-15-4** REGISTRY

ED Entered STN: 16 Nov 1984
CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)imino(1-oxo-1,2-ethanediyl)] (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly[(methylimino)carbonylmethyleneiminocarbonylmethylene] (8CI)
MF (C5 H8 N2 O2)n
CI PMS
PCT Polyamide
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 72:3742

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 07:49:36 ON 12 OCT 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 12 Oct 2005 VOL 143 ISS 16
FILE LAST UPDATED: 11 Oct 2005 (20051011/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d l90 all hitstr tot

L90 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:592 HCAPLUS
DN 142:59288
ED Entered STN: 31 Dec 2004
TI Preparation of colloidal dispersion of plate-like calcium phosphate
IN Chane, Ching Jean Yves
PA Rhodia Chimie, Fr.
SO Fr. Demande, 16 pp.

CODEN: FRXXBL
DT Patent
LA French
IC ICM B01J013-00
ICS B01F017-14; C01B025-32; C04B016-00; A61K009-10; A61K047-02; A61K007-16
CC 49-5 (Industrial Inorganic Chemicals)
Section cross-reference(s): 17, 62, 63
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI FR 2856608	A1	20041231	FR 2003-7879	20030630
WO 2005002720	A2	20050113	WO 2004-FR1647	20040628
WO 2005002720	A3	20050317		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI FR 2003-7879 A 20030630
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
FR 2856608	ICM	B01J013-00
	ICS	B01F017-14; C01B025-32; C04B016-00; A61K009-10; A61K047-02; A61K007-16
FR 2856608	ECLA	B01J013/00B2B; C01B025/32; C01B025/32D
WO 2005002720	ECLA	B01J013/00B2B; C01B025/32; C01B025/32D

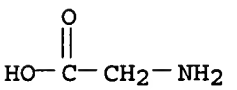
AB Colloidal dispersion of plate-like calcium phosphate containing at least one Ca-complexing polymer are prepared The plate-like crystals have a length of 5-500 nm and a thickness of 0.5-20 nm. The produced calcium phosphate has a monetite or apatite structure. The Ca-complexing polymer can be polyaspartic acid, polyglutamic acid, polylysine, polyglycine, homopolymers or copolymers of acrylic acid or methacrylic acid, polyacrylic acid-polyacrylamide, polysaccharides which can be modified with guar, CM-cellulose, xanthan gum, or polysaccharides modified with phosphate or phosphonate functions, or peptides containing phosphate groups. A dispersant, especially sodium tripolyphosphate, is added to the dispersion. The dispersion is prepared by adding a solution of (NH4)2(HPO4) or (NH4)(H2PO4) and a calcium-complexing polymer to a solution containing a calcium salt, especially CaCl2 or Ca(NO3)2, having a pH of 4-6, heating the obtained dispersion to 60-90°, washing the dispersion, adding a dispersant, and separating the colloidal dispersion. The colloidal dispersions can be used as food additives, heat insulators, pharmaceutical excipient, agent for oral formulations, in particular toothpastes, or encapsulation agents.

ST colloidal dispersion calcium phosphate plate dispersant calcium complexing polymer
IT Colloids
Dispersion (of materials)
Food additives
(preparation of colloidal dispersion of plate-like calcium phosphate)
IT Acrylic polymers, uses
Phosphopeptides

Polysaccharides, uses
RL: MOA (Modifier or additive use); USES (Uses)
(preparation of colloidal dispersion of plate-like calcium phosphate)
IT 7758-29-4, Sodium tripolyphosphate
RL: NUU (Other use, unclassified); USES (Uses)
(dispersant; preparation of colloidal dispersion of plate-like calcium phosphate)
IT 1306-06-5P, Apatite 21063-37-6P, Monetite
RL: CPS (Chemical process); IMF (Industrial manufacture); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PREP (Preparation); PROC (Process); USES (Uses)
(preparation of colloidal dispersion of plate-like calcium phosphate)
IT 1336-21-6, Ammonium hydroxide
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)
(preparation of colloidal dispersion of plate-like calcium phosphate)
IT 7783-28-0 10035-04-8, Calcium chloride dihydrate 10124-37-5, Calcium nitrate (Ca(NO3)2)
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(preparation of colloidal dispersion of plate-like calcium phosphate)
IT 9003-06-9, Acrylamide-acrylic acid copolymer 25104-18-1, Polylysine 25513-46-6, Polyglutamic acid **25718-94-9**, Polyglycine 34345-47-6, Polyaspartic acid, sodium salt
RL: MOA (Modifier or additive use); USES (Uses)
(preparation of colloidal dispersion of plate-like calcium phosphate)
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Anon; PATENT ABSTRACTS OF JAPAN 2000, V2000(08)
(2) Constantz, B; US 5782971 A 1998 HCAPLUS
(3) Griffith, E; US 4721615 A 1988 HCAPLUS
(4) Nagata, F; US 5427754 A 1995 HCAPLUS
(5) New Raimu Kenkyusha Kk; JP 2000128513 A 2000 HCAPLUS
IT **25718-94-9**, Polyglycine
RL: MOA (Modifier or additive use); USES (Uses)
(preparation of colloidal dispersion of plate-like calcium phosphate)
RN 25718-94-9 HCAPLUS
CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6
CMF C2 H5 N O2



L90 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:451470 HCAPLUS
DN 140:428719
ED Entered STN: 04 Jun 2004
TI Hydrogel dental compositions with an erodible backing member
IN Singh, Parminder; Faasse, Adrian; Cleary, Gary W.; Mudumba, Sri; Feldstein, Mikhail M.; Bairamov, Danir R.
PA Corium International, USA; A.V. Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences

SO U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of U.S. Ser. No. 359,548.
CODEN: USXXCO
DT Patent
LA English
IC ICM A61K007-06
ICS A61K007-11
INCL 424070130; 424070160
CC 62-7 (Essential Oils and **Cosmetics**)
FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004105834	A1	20040603	US 2003-661103	20030912
	US 2003170308	A1	20030911	US 2002-137664	20020501
	US 2003152528	A1	20030814	US 2003-359548	20030205
	WO 2005027768	A2	20050331	WO 2004-US29620	20040909
	WO 2005027768	A3	20050707		

W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI	US 2001-288008P	P	20010501	
	US 2002-137664	A2	20020501	
	US 2003-359548	A2	20030205	
	US 2003-661103	A	20030912	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004105834	ICM	A61K007-06
	ICS	A61K007-11
	INCL	424070130; 424070160
US 2004105834	NCL	424/070.130
	ECLA	A61K006/00; A61K008/22; A61K008/73C; A61K008/81K4; A61K008/81R; A61K008/81R2; A61K008/86; A61L015/60; A61L015/60+C08L53/00; A61Q011/00
US 2003170308	NCL	424/486.000
	ECLA	A61K008/22; A61K008/73C; A61K008/81K4; A61K008/81R; A61K008/81R2; A61K008/86; A61L015/60; A61L015/60+C08L53/00; A61Q011/00
US 2003152528	NCL	424/053.000
	ECLA	A61K008/22; A61K008/73C; A61K008/81K4; A61K008/81R; A61K008/81R2; A61K008/86; A61L015/60; A61L015/60+C08L53/00; A61Q011/00

AB A composition is provided, wherein the composition comprises a water-swellable, water-insol. polymer, a blend of a hydrophilic polymer with a complementary oligomer capable of hydrogen or electrostatic bonding to the hydrophilic polymer. The composition also includes a backing member. Active ingredients, such as a whitening agent, may be included. The composition finds utility as an oral dressing, e.g., a tooth whitening composition that is applied to the teeth in need of whitening. The composition can be designed to be removed when the degree of whitening has been achieved or left in place and allowed to erode entirely. In certain embodiments, the composition is

translucent. Methods for preparing and using the compns. are also disclosed. A composition for tooth whitening is prepared from the following ingredients by using a melt extrusion process: Eudragit L100-55 9, PVP 44, PEG 22, H2O2 6, and water and stabilizers and pH modulators 19 weight%.

ST hydrogel dentifrice polymer erodible

IT Medical goods
(dressings; hydrogel dental compns. with erodible backing member)

IT Cinnamon (spice)
Dentifrices
Dyes
Fillers
Flavor
Hydrogels
Mentha piperita
Mentha spicata
Pigments, nonbiological
Preservatives
Spices
Stabilizing agents
Sweetening agents
Thickening agents
Tooth
Vanilla
Wintergreen
(hydrogel dental compns. with erodible backing member)

IT Chlorites
Hydroperoxides
Peroxides, biological studies
Peroxy acids
Polymer blends
Polymers, biological studies
Polyoxyalkylenes, biological studies
Protamines
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hydrogel dental compns. with erodible backing member)

IT Group IIIA element compounds
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(perborates; hydrogel dental compns. with erodible backing member)

IT Alcohols, biological studies
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polyhydric; hydrogel dental compns. with erodible backing member)

IT Vinyl compounds, biological studies
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polymers; hydrogel dental compns. with erodible backing member)

IT 57-48-7, Fructose, biological studies 57-50-1, Sucrose, biological studies 79-06-1D, Acrylamide, polymers 79-10-7D, Acrylic acid, polymers 79-41-4D, Methacrylic acid, polymers 80-62-6D, Methyl methacrylate, polymers 81-07-2, Saccharin 87-99-0, Xylitol 89-78-1, Menthol 96-33-3D, Methyl acrylate, polymers 97-63-2D, Ethyl methacrylate, polymers 124-43-6 140-88-5D, Ethyl acrylate, polymers 563-69-9D, Carbonoperoxoic acid, derivs. 1305-79-9, Calcium peroxide 7722-84-1, Hydrogen peroxide, biological studies 7758-19-2, Sodium chlorite 9002-89-5, Poly(vinyl alcohol) 9004-32-4, Sodium carboxymethyl cellulose 9004-34-6D, Cellulose, esters 9004-35-7, Cellulose acetate 9004-36-8, Cellulose acetate butyrate 9004-39-1, Cellulose acetate propionate 9004-48-2, Cellulose propionate

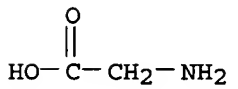
9004-57-3, Ethyl cellulose 9004-62-0, Hydroxyethyl cellulose 9004-64-2, Hydroxypropyl cellulose 9004-65-3, Hydroxypropylmethylcellulose 9004-67-5, Methyl cellulose 9005-25-8, Starch, biological studies 9005-32-7, Alginic acid 9005-35-0, Calcium alginate 9005-37-2, Propylene glycol alginate 9005-38-3, Sodium alginate 9012-09-3, Cellulose triacetate 9015-12-7, Cellulose butyrate 9015-16-1, Cellulose propionate butyrate 9035-69-2, Cellulose diacetate 9045-28-7, Starch acetate 10049-04-4, Chlorine dioxide 14314-27-3, Potassium chlorite 14380-61-1, Hypochlorite 14452-57-4, Magnesium peroxide 14674-72-7, Calcium chlorite 14674-74-9, Barium chlorite 17188-11-3, Magnesium chlorite 22839-47-0, Aspartame 25086-15-1, Eudragit L 100 25104-18-1, Polylysine 25191-17-7, Polyalanine 25212-88-8, Eudragit L 100-55 25213-34-7, Polyalanine **25718-94-9**, Polyglycine **25734-27-4**, Polyglycine, SRU 26336-38-9, Poly(vinylamine) 27505-49-3, Lithium chlorite 38000-06-5, Polylysine
RL: **COS (Cosmetic use)**; THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hydrogel dental compns. with erodible backing member)

IT **25718-94-9**, Polyglycine **25734-27-4**, Polyglycine, SRU
RL: **COS (Cosmetic use)**; THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hydrogel dental compns. with erodible backing member)

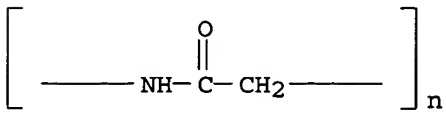
RN 25718-94-9 HCAPLUS
CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6
CMF C2 H5 N O2



RN 25734-27-4 HCAPLUS
CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



L90 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:805562 HCAPLUS
DN 138:23877
ED Entered STN: 23 Oct 2002
TI Production of off-odor volatiles from liposome-containing amino acid homopolymers by irradiation
AU Ahn, D. U.; Lee, E. J.
CS Department of Animal Science, Iowa State University, Ames, IA, 50011-3150, USA
SO Journal of Food Science (2002), 67(7), 2659-2665
CODEN: JFDSAZ; ISSN: 0022-1147
PB Institute of Food Technologists
DT Journal

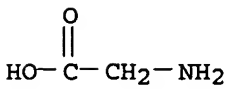
LA English
CC 17-2 (Food and Feed Chemistry)
Section cross-reference(s): 8
AB Irradiation not only generated many new volatiles but also destroyed some volatiles already present in nonirradiated amino acid homopolymer-in-liposome meat models. The amts. of some volatiles greatly increased, but others significantly decreased after irradiation The majority of newly generated and increased volatiles by irradiation were sulfur compds., indicating that sulfur amino acids are the most susceptible to changes by irradiation More than one site in the amino acid side chains was labile to free radical attack, and many volatiles were produced by the secondary chemical reactions after the primary radiolytic degradation of side chains. Although nonirradiated samples also produced some sulfury notes, irradiated samples produced a much stronger and astringent sulfury odor than nonirradiated samples.
ST amino acid liposome volatile formation odor irradn meat model
IT Amino acids, miscellaneous
RL: MSC (Miscellaneous)
(acidic; volatiles from liposome-amino acid homopolymers in irradiated food models)
IT Amino acids, miscellaneous
RL: MSC (Miscellaneous)
(aliphatic; volatiles from liposome-amino acid homopolymers in irradiated food models)
IT Amides, miscellaneous
RL: MSC (Miscellaneous)
(amino; volatiles from liposome-amino acid homopolymers in irradiated food models)
IT Amino acids, miscellaneous
RL: MSC (Miscellaneous)
(aromatic; volatiles from liposome-amino acid homopolymers in irradiated food models)
IT Amino acids, miscellaneous
RL: MSC (Miscellaneous)
(basic; volatiles from liposome-amino acid homopolymers in irradiated food models)
IT Amino acids, miscellaneous
RL: MSC (Miscellaneous)
(hydroxy; volatiles from liposome-amino acid homopolymers in irradiated food models)
IT Electron beams
(irradiation; volatiles from liposome-amino acid homopolymers in irradiated food models)
IT Food
(model; volatiles from liposome-amino acid homopolymers in irradiated food models)
IT **Odor and Odorous substances**
(off-odor; volatiles from liposome-amino acid homopolymers in irradiated food models)
IT Polyamides, miscellaneous
RL: MSC (Miscellaneous)
(poly(amino acids); volatiles from liposome-amino acid homopolymers in irradiated food models)
IT Amino acids, miscellaneous
RL: MSC (Miscellaneous)
(sulfur-containing; volatiles from liposome-amino acid homopolymers in irradiated food models)
IT Liposomes
Volatile substances
(volatiles from liposome-amino acid homopolymers in irradiated food

models)
IT 60-29-7, 1,1'-Oxybis ethane, formation (nonpreparative) 67-64-1, 2-Propanone, formation (nonpreparative) 71-43-2, Benzene, formation (nonpreparative) 74-93-1, Methane thiol, formation (nonpreparative) 75-15-0, Carbon disulfide, formation (nonpreparative) 75-18-3, Dimethyl sulfide 75-65-0, 2-Methyl-2-propanol, formation (nonpreparative) 75-91-2, 1,1-Dimethylethyl hydroperoxide 75-97-8, 3,3-Dimethyl-2-butanone 78-84-2, 2-Methyl propanal 96-54-8, 1-Methyl pyrrole 100-41-4, Ethyl benzene, formation (nonpreparative) 106-98-9, 1-Butene, formation (nonpreparative) 108-38-3, 1,3-Dimethylbenzene, formation (nonpreparative) 108-88-3, Toluene, formation (nonpreparative) 109-66-0, Pentane, formation (nonpreparative) 109-68-2, 2-Pentene 110-54-3, Hexane, formation (nonpreparative) 111-65-9, Octane, formation (nonpreparative) 123-72-8, Butanal 123-91-1, 1,4-Dioxane, formation (nonpreparative) 141-78-6, Ethyl acetate, formation (nonpreparative) 590-86-3, 3-Methylbutanal 615-29-2, 4-Methyl-3-hexanol 624-89-5, Methylthio ethane 624-92-0, Dimethyl disulfide 1072-43-1, Methyl thiirane 1330-20-7, Xylene, formation (nonpreparative) 1630-94-0, 1,1-Dimethyl cyclopropane 2679-87-0, 2-Ethoxy butane 3658-80-8, Dimethyl trisulfide 5756-24-1, Dimethyl tetrasulfide 7319-16-6, 1-Methoxy-1-propene 7446-09-5, Sulfur dioxide, formation (nonpreparative) 20333-39-5, Methyl ethyl disulfide 27137-41-3, Methylfuran
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(volatiles from liposome-amino acid homopolymers in irradiated food models)
IT 70-18-8, Glutathione, miscellaneous 14517-45-4 24991-23-9 25104-18-1, Poly-L-lysine 25191-17-7, Poly-L-alanine 25248-98-0, Poly-L-leucine 25608-40-6, Poly-L-aspartic acid 25619-78-7, Poly-L-tyrosine **25718-94-9**, Polyglycine 26062-48-6, Poly-L-histidine 28088-48-4, Poly-L-asparagine 82822-12-6, Poly-L-threonine
RL: MSC (Miscellaneous)
(volatiles from liposome-amino acid homopolymers in irradiated food models)
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Ahn, D; J Food Sci 1997, V62(5), P954 HCAPLUS
(2) Ahn, D; J Food Sci 1998, V63(1), P15 HCAPLUS
(3) Ahn, D; J Food Sci 1999, V64(2), P226 HCAPLUS
(4) Ahn, D; J Food Sci. Forthcoming 2002
(5) Ahn, D; Meat Sci 1998, V49(1), P27 HCAPLUS
(6) Ahn, D; Meat Sci 2000, V54, P209 HCAPLUS
(7) Ahn, D; Meat Sci 2001, V57, P419 HCAPLUS
(8) Diehl, J; Safety of irradiated foods. 2nd ed 1995, P43
(9) Du, M; Meat Sci 2001, V60(1), P9
(10) Du, M; Poultry Sci Forthcoming 2001
(11) Hashim, I; J Food Sci 1995, V60(4), P664 HCAPLUS
(12) Heath, J; Poultry Sci 1990, V69, P313 HCAPLUS
(13) Jo, C; J Food Sci 2000, V65(4), P612 HCAPLUS
(14) Lee, E; J Food Sci Submitted 2002
(15) Merritt, C; J Agric Food Chem 1975, V23, P1037 HCAPLUS
(16) Merritt, C; J Agric Food Chem 1978, V26, P29 HCAPLUS
(17) Patterson, R; Br Poultry Sci 1995, V36, P425 MEDLINE
(18) SAS Institute Inc; SAS user's guide 1989
IT **25718-94-9**, Polyglycine
RL: MSC (Miscellaneous)
(volatiles from liposome-amino acid homopolymers in irradiated food models)
RN 25718-94-9 HCAPLUS

CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6
CMF C2 H5 N O2



L90 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:805545 HCAPLUS
DN 138:23874
ED Entered STN: 23 Oct 2002
TI Production of volatiles from amino acid homopolymers by irradiation
AU Ahn, D. U.
CS Dept. of Animal Science, Iowa State Univ., Ames, IA, 50011-3150, USA
SO Journal of Food Science (2002), 67(7), 2565-2570
CODEN: JFDSAZ; ISSN: 0022-1147
PB Institute of Food Technologists
DT Journal
LA English
CC 17-2 (Food and Feed Chemistry)
Section cross-reference(s): 8
AB Amino acid homopolymers were used to determine production of radiolytic volatiles by irradiation Many new volatiles were generated, and the amts. of volatiles in amino acid homopolymers changed after irradiation Each amino acid homopolymer group produced different odor characteristics, but the intensities of odor from all amino acid groups were weak, except for sulfur-containing amino acids. Sulfur-containing amino acids produced various sulfur compds.; the overall odor intensity of irradiated sulfur amino acids was very high and the odor characteristics of sulfur amino acids were similar to irradiation odor of meat. The contribution of methionine to the irradiation odor would be far greater than that of cysteine.
ST amino acid odor volatile formation irradn meat model
IT Electron beams
(irradiation; volatiles from amino acid homopolymers in irradiated food models)
IT Polyamides, miscellaneous
RL: MSC (Miscellaneous)
(poly(amino acids); volatiles from amino acid homopolymers in irradiated food models)
IT Amino acids, miscellaneous
RL: MSC (Miscellaneous)
(sulfur-containing; volatiles formation in irradiated food models)
IT Meat
Odor and Odorous substances
Volatile substances
(volatiles from amino acid homopolymers in irradiated food models)
IT 52-90-4, L-Cysteine, miscellaneous 56-40-6, Glycine, miscellaneous 56-41-7, L-Alanine, miscellaneous 56-45-1, L-Serine, miscellaneous 56-84-8, L-Aspartic acid, miscellaneous 56-85-9, L-Glutamine, miscellaneous 56-86-0, L-Glutamic acid, miscellaneous 56-87-1, L-Lysine, miscellaneous 60-18-4, L-Tyrosine, miscellaneous 63-68-3, L-Methionine, miscellaneous 70-47-3, L-Asparagine, miscellaneous

71-00-1, L-Histidine, miscellaneous 72-19-5, L-Threonine, miscellaneous
147-85-3, L-Proline, miscellaneous
RL: MSC (Miscellaneous)
(volatiles formation in irradiated food models)

IT 60-29-7, 1,1'-Oxybisethane, formation (nonpreparative) 64-17-5, Ethanol, formation (nonpreparative) 66-25-1, Hexanal 67-64-1, 2-Propanone, formation (nonpreparative) 71-43-2, Benzene, formation (nonpreparative) 74-93-1, Mercaptomethane, formation (nonpreparative) 75-05-8, Acetonitrile, formation (nonpreparative) 75-07-0, Acetaldehyde, formation (nonpreparative) 75-15-0, Carbon disulfide, formation (nonpreparative) 75-18-3, Dimethyl sulfide 75-21-8, Oxirane, formation (nonpreparative) 78-78-4, 2-Methyl butane 78-83-1, formation (nonpreparative) 78-84-2, 2-Methyl propanal 78-93-3, 2-Butanone, formation (nonpreparative) 79-20-9, Acetic acid, methyl ester 96-17-3, 2-Methyl butanal 96-37-7, Methyl cyclopentane 96-41-3, Cyclopentanol 97-96-1, 2-Ethyl butanal 98-82-8, Isopropyl benzene 100-41-4, Ethyl benzene, formation (nonpreparative) 106-42-3, 1,4-Dimethyl benzene, formation (nonpreparative) 108-20-3, 2,2'-Oxybispropane 108-38-3, 1,3-Dimethyl benzene, formation (nonpreparative) 108-88-3, Toluene, formation (nonpreparative) 109-99-9, Tetrahydrofuran, formation (nonpreparative) 110-54-3, Hexane, formation (nonpreparative) 110-62-3, Pentanal 110-82-7, Cyclohexane, formation (nonpreparative) 115-11-7, 2-Methyl-1-propene, formation (nonpreparative) 123-72-8, Butanal 123-91-1, 1,4-Dioxane, formation (nonpreparative) 141-78-6, Acetic acid ethyl ester, formation (nonpreparative) 497-26-7, 2-Methyl-1,3-dioxolane 543-75-9, 2,3-Dihydro-1,4-dioxin 554-12-1, Methyl propionate 590-86-3, 3-Methyl butanal 623-42-7, Methyl butyrate 624-89-5, (Methylthio)ethane 624-92-0, Dimethyl disulfide 637-92-3, 2-Ethoxy-2-methylpropane 1072-43-1, Methyl thiirane 1534-08-3, Ethanethioic acid, S-methyl ester 1618-26-4, 2,4-Dithiapentane 1634-04-4, 2-Methoxy-2-methylpropane 1639-09-4, 1-Heptanethiol 1823-52-5, 4,4-Dimethyl-2-oxetanone 2679-87-0, 2-Ethoxy butane 6163-64-0, 2-Methyl-2-(methylthio)propane 10152-76-8, 3-(Methylthio)-1-propene 13952-84-6, 2-Butanamine 20333-39-5, Methyl ethyl disulfide
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(volatiles from amino acid homopolymers in irradiated food models)

IT 70-18-8, Glutathione, miscellaneous 3061-96-9 14517-45-4 25104-18-1, Polylysine 25191-13-3, Polyproline 25191-17-7, Polyalanine 25513-46-6, Polyglutamic acid 25608-40-6, Polyaspartic acid 25619-78-7, Polytyrosine **25718-94-9**, Polyglycine 25821-52-7, Polyserine 26062-48-6, Polyhistidine 26700-71-0, Polyglutamine 28088-48-4, Polyasparagine 82822-12-6, Polythreonine
RL: MSC (Miscellaneous)
(volatiles from amino acid homopolymers in irradiated food models)

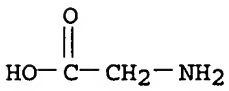
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

(1) Ahn, D; J Food Sci 1997, V62(5), P954 HCAPLUS
(2) Ahn, D; J Food Sci 1998, V63(1), P15 HCAPLUS
(3) Ahn, D; J Food Sci 1999, V64(2), P226 HCAPLUS
(4) Ahn, D; Meat Sci 1998, V49(1), P27 HCAPLUS
(5) Ahn, D; Meat Sci 2000, V54, P209 HCAPLUS
(6) Ahn, D; Meat Sci 2001, V57, P419 HCAPLUS
(7) Buttery, R; J Agric Food Chem 1973, V21(1), P198
(8) Chen, X; J Food Sci 1999, V64(1), P16 HCAPLUS
(9) Du, M; Meat Sci 2001, V60(1), P9
(10) Du, M; Poultry Sci Forthcoming 2001
(11) Godshall, M; Food Technol 1997, V51(1), P63 HCAPLUS
(12) Hashim, I; J Food Sci 1995, V60(4), P664 HCAPLUS
(13) Heath, J; Poultry Sci 1990, V69, P313 HCAPLUS

(14) Jo, C; J Food Sci 1999, V64(4), P641 HCAPLUS
(15) Jo, C; J Food Sci 2000, V65(4), P612 HCAPLUS
(16) Lubbers, S; Food Technol 1998, V52(5), P68 HCAPLUS
(17) Patterson, R; Br Poultry Sci 1995, V36, P425 MEDLINE
(18) SAS Institute Inc; SAS user's guide 1989
(19) Tang, J; J Agric Food Chem 1983, V31(3), P1287
IT **25718-94-9**, Polyglycine
RL: MSC (Miscellaneous)
(volatiles from amino acid homopolymers in irradiated food models)
RN 25718-94-9 HCAPLUS
CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6
CMF C2 H5 N O2



L90 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:693115 HCAPLUS
DN 137:221793
ED Entered STN: 13 Sep 2002
TI **Antiwrinkle cosmetic** composition containing a derivative of polyamino acids,
IN **Philippe, Michel**; **Benard, Sylvie**
PA **L'Oreal**, Fr.
SO Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DT Patent
LA French
IC ICM A61K007-48
CC 62-4 (Essential Oils and **Cosmetics**)
Section cross-reference(s): 34
FAN.CNT 1

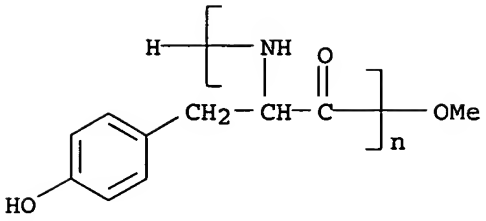
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1238655	A1	20020911	EP 2002-290454	20020225
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
FR 2821550	A1	20020906	FR 2001-2979	20010305
FR 2821550	B1	20040423		
CA 2374147	AA	20020905	CA 2002-2374147	20020304
US 2002155991	A1	20021024	US 2002-86451	20020304
JP 2002255732	A2	20020911	JP 2002-59518	20020305
PRAI FR 2001-2979	A	20010305		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1238655	ICM	A61K007-48
US 2002155991	NCL	514/002.000

AB **Antiwrinkle cosmetics** containing polyamino acids are prepared (Markush structure given). N-carboxyanhydride tyrosine 20, sodium methylate in methanol 0.51 g, and THF 200 mL were mixed and heated for 6 h at 60° to obtain a polyamino acid (yield 96%). Formulation of an

antiwrinkle cream containing 7% of above polyamino acid is disclosed.
ST polyamino acid skin **wrinkle cosmetic**
IT DNA
Lactalbumins
Protein hydrolyzates
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(**antiwrinkle cosmetic** composition containing derivative of polyamino acids,)
IT **Cosmetics**
(creams, **wrinkle**-preventing; **antiwrinkle cosmetic** composition containing derivative of polyamino acids,)
IT Polyamides, biological studies
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(poly(amino acids); **antiwrinkle cosmetic** composition containing derivative of polyamino acids,)
IT Proteins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(soybean; **antiwrinkle cosmetic** composition containing derivative of polyamino acids,)
IT **Cosmetics**
(**wrinkle**-preventing; **antiwrinkle cosmetic** composition containing derivative of polyamino acids,)
IT 462117-51-7P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**antiwrinkle cosmetic** composition containing derivative of polyamino acids)
IT **457625-03-5P** 457625-04-6P 457625-05-7P
RL: **COS (Cosmetic use)**; SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**antiwrinkle cosmetic** composition containing derivative of polyamino acids,)
IT 56-87-1, Lysine, reactions 124-41-4, Sodium methylate 3415-08-5 5840-76-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(**antiwrinkle cosmetic** composition containing derivative of polyamino acids,)
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Bakhoo, M; US 5629282 A 1997 HCAPLUS
(2) Gibbons, W; GB 2217319 A 1989 HCAPLUS
(3) Lion Corp; DE 3724460 A 1988 HCAPLUS
(4) Th Goldschmidt Ag; EP 0958811 A 1999 HCAPLUS
(5) Th Goldschmidt Ag; EP 0959092 A 1999 HCAPLUS
(6) Unilever Plc; WO 9937279 A 1999 HCAPLUS
IT **457625-03-5P**
RL: **COS (Cosmetic use)**; SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(**antiwrinkle cosmetic** composition containing derivative of polyamino acids,)
RN 457625-03-5 HCAPLUS
CN Poly[imino[(1S)-1-[(4-hydroxyphenyl)methyl]-2-oxo-1,2-ethanediyl]], α-hydro-ω-methoxy- (9CI) (CA INDEX NAME)



L90 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:384341 HCAPLUS
DN 136:386877
ED Entered STN: 23 May 2002
TI Macro monomer containing polyamino acid segments and their copolymers for **cosmetics**
IN Sakakibara, Makoto
PA Kao Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08G069-48
ICS A61K007-00; C08F299-02
CC 37-2 (Plastics Manufacture and Processing)
Section cross-reference(s): **62**

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2002146010	A2	20020522	JP 2000-351149	20001117
PRAI JP 2000-351149		20001117		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2002146010	ICM	C08G069-48
	ICS	A61K007-00; C08F299-02

AB The macro monomer H2C:C(R1)CO[N(R2)C(R3)(R4)CO]nX (R1-4 = H, CC1-22 linear or branched alkyl, C6-22 cycloalkyl, C7-22 aralkyl, C6-22 aryl; n = 1-500; X = hetero atom) is prepared by reaction of a polyamino acid having repeating union -N(R2)C(R3)(R4)CO- (e.g. homopolymer of N-methylglycine N-carboxy anhydride) with a polymerizable unsatd. group-containing carboxylic acid or its derivs (e.g., acrylic acid chloride). The homopolymers or copolymers obtained from the macro monomers are useful for **cosmetics.**
ST polyamino acid unsatd carboxylate macro monomer; **cosmetic** polyamino acid macro monomer polymn; methylglycine carboxylic anhydride acrylic chloride reaction
IT Polyamides, preparation
RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(acrylic; macro monomer containing polyamino acid segments and their copolymers for **cosmetics**)
IT **Cosmetics**
(liqs.; macro monomer containing polyamino acid segments and their copolymers for **cosmetics**)
IT Macromonomers
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(macro monomer containing polyamino acid segments and their copolymers for **cosmetics**)

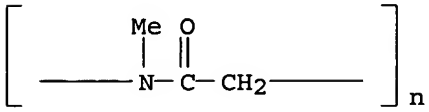
IT 80-62-6DP, Methyl methacrylate, reaction products with poly(N-methylglycine) acrylate 141-32-2DP, Butyl acrylate, reaction products with poly(N-methylglycine) acrylate 25951-24-0DP, Poly(N-Methylglycine), acrylates, polymers **26521-10-8DP**, Poly(N-Methylglycine), sru, acrylates, polymers
RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(macro monomer containing polyamino acid segments and their copolymers for **cosmetics**)

IT 814-68-6DP, 2-Propenoyl chloride, reaction products with poly(N-methylglycine) 25951-24-0DP, Poly(N-Methylglycine), reaction products with acrylic chloride **26521-10-8DP**, Poly(N-Methylglycine), sru, reaction products with acrylic chloride
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(macro monomer containing polyamino acid segments and their copolymers for **cosmetics**)

IT 5840-76-6, N-Methylglycine N-carboxy anhydride
RL: RCT (Reactant); RACT (Reactant or reagent)
(macro monomer containing polyamino acid segments and their copolymers for **cosmetics**)

IT **26521-10-8DP**, Poly(N-Methylglycine), sru, acrylates, polymers
RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(macro monomer containing polyamino acid segments and their copolymers for **cosmetics**)

RN 26521-10-8 HCAPLUS
CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(macro monomer contg. polyamino acid segments and their copolymers for **cosmetics**

L90 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:95630 HCAPLUS
DN 136:123606
ED Entered STN: 06 Feb 2002
TI Health-care composition for preventing and treating radiation damage
IN Li, Xiaokun; Xu, Hua; Feng, Chengli; Hong, An
PA Medical Biological Technology Research Development Centre, Guangzhou Jinan Univ., Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 12 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
IC ICM A61K038-22
ICS A61P039-00
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): 17, **62**
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1303713	A	20010718	CN 2000-114008	20000107
PRAI	CN 2000-114008		20000107		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
CN 1303713	ICM	A61K038-22
	ICS	A61P039-00

AB A health-care composition is composed of total Panax saponin 0.1-10% (weight/volume), spirulina polysaccharide 1-20% (weight/volume), and thymosin-α 0.01-100 mg mL-1. The health-care composition may contain N-acetylcysteine, salicylic acid derivative, angelica polysaccharide, Bupleurum polysaccharide, and/or Astragalus polysaccharide, etc. The health-care composition may be used as additive for health-care products, preferably **cosmetics**. A **cosmetic** containing the health-care composition may contain UV absorbent, anti-inflammatory agent, antioxidant, benzofuran derivative, metal ion complexing agent, and/or skin permeating agent.

ST saponin polysaccharide medicinal compn **cosmetic**

IT Radiation
(damage; health-care composition for preventing and treating radiation damage)

IT Angelica
Astragalus
Bupleurum
Cosmetics
Drug delivery systems
Panax
(health-care composition for preventing and treating radiation damage)

IT Carbohydrates, biological studies
Collagens, biological studies
Polyoxyalkylenes, biological studies
Saponins
RL: COS (Cosmetic use); FFD (Food or feed use); MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(health-care composition for preventing and treating radiation damage)

IT Alcohols, biological studies
RL: COS (Cosmetic use); FFD (Food or feed use); MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(lanolin; health-care composition for preventing and treating radiation damage)

IT 50-81-7, Vitamin C, biological studies 56-81-5, Glycerol, biological studies 63-42-3, Lactose 69-72-7, Salicylic acid, biological studies 99-76-3, Methyl 4-hydroxybenzoate 110-27-0, Isopropyl myristate 7647-14-5, Sodium chloride, biological studies 12737-61-0, Polyglycerol methacrylate 25104-18-1, Poly(lysine) 25322-68-3, Polyethylene glycol **25718-94-9**, Poly(glycine) **25734-27-4**, Poly(glycine) 31566-31-1, Glycerol monostearate 38000-06-5, Poly(lysine)
RL: **COS (Cosmetic use)**; FFD (Food or feed use); MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(health-care composition for preventing and treating radiation damage)

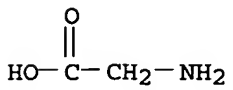
IT 61512-21-8, Thymosin
RL: COS (Cosmetic use); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(health-care composition for preventing and treating radiation damage)

IT **25718-94-9**, Poly(glycine) **25734-27-4**, Poly(glycine)
RL: **COS (Cosmetic use)**; FFD (Food or feed use); MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(health-care composition for preventing and treating radiation damage)

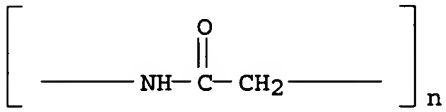
RN 25718-94-9 HCAPLUS
CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6
CMF C2 H5 N O2



RN 25734-27-4 HCAPLUS
CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



L90 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:791880 HCAPLUS
DN 135:348877
ED Entered STN: 31 Oct 2001
TI Cooling agents containing caffeine derivatives for pharmaceutical composition
IN Matsushima, Hiroaki; Okumura, Shigetoshi; Morioka, Shigeo
PA Rohto Pharmaceutical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61K045-00
ICS A61K047-22; A61P011-02; A61P027-02
CC 63-6 (Pharmaceuticals)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001302545	A2	20011031	JP 2001-39116	20010215
PRAI JP 2000-36557	A	20000215		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001302545	ICM	A61K045-00
	ICS	A61K047-22; A61P011-02; A61P027-02

OS MARPAT 135:348877
AB The invention relates to a method for refrigerating a composition, especially mucosal pharmaceutical composition, without causing unwanted sensory, e.g. unwanted odor and irritation, wherein the composition contains caffeine, theophylline, diprophylline, theobromine, proxyphylline, pentoxifylline, and/or related compound An eye drop containing caffeine anhydride 3, tetrahydrozoline hydrochloride 0.5, neostigmine methylsulfate 0.05, pyridoxin hydrochloride 1, potassium aspartate 10, benzalchonium chloride 0.1, boric acid 5, NaOH q.s., and water q.s. to 1000 mL was formulated.

ST caffeine deriv cooling agent mucosal pharmaceutical
IT **Skin preparations (pharmaceutical)**
(astringents; cooling agents containing caffeine derivs. for pharmaceutical composition)
IT Allergy inhibitors
Anti-inflammatory agents
Antibiotics
Antihistamines
Coolants
(cooling agents containing caffeine derivs. for pharmaceutical composition)
IT Amino acids, biological studies
Carbohydrates, biological studies
Sulfonamides
Vitamins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cooling agents containing caffeine derivs. for pharmaceutical composition)
IT Contact lenses
(disinfectant composition for; cooling agents containing caffeine derivs. for
pharmaceutical composition)
IT Disinfectants
(for contact lenses; cooling agents containing caffeine derivs. for pharmaceutical composition)
IT Eye, disease
(hyperemia, treatment of; cooling agents containing caffeine derivs. for pharmaceutical composition)
IT Tocopherols
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mucosal compns. containing active agents and cooling agents containing caffeine derivs.)
IT Drug delivery systems
(mucosal; cooling agents containing caffeine derivs. for pharmaceutical composition)
IT Eye
(muscle, controlling agent; cooling agents containing caffeine derivs. for pharmaceutical composition)
IT Drug delivery systems
(nasal; cooling agents containing caffeine derivs. for pharmaceutical composition)
IT Drug delivery systems
(ointments, ophthalmic; cooling agents containing caffeine derivs. for pharmaceutical composition)
IT Drug delivery systems
(solns., ophthalmic; cooling agents containing caffeine derivs. for pharmaceutical composition)
IT 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 83-67-0, Theobromine 479-18-5, Diprophylline 603-00-9, Proxyphylline 6493-05-6, Pentoxifylline
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cooling agents containing caffeine derivs. for pharmaceutical composition)
IT 50-99-7, D-Glucose, biological studies 51-43-4, Epinephrine 51-60-5, Neostigmine methylsulfate 56-84-8, L-Aspartic acid, biological studies 58-56-0, Pyridoxine hydrochloride 58-73-1, Diphenhydramine 58-95-7, Tocopherol acetate 59-42-7, Phenylephrine 60-32-2 65-23-6, Pyridoxine 68-19-9, Cyanocobalamine 68-26-8, Retinol 79-83-4, Pantothenic acid 81-13-0, Panthenol 84-22-0, Tetrahydrozoline 97-59-6, Allantoin 107-35-7 113-92-8, Chlorpheniramine 113-92-8, Chlorpheniramine maleate 119-36-8, Methyl salicylate 121-54-0 127-69-5, Sulfisoxazole 146-14-5, Flavin adenine dinucleotide 299-42-3, Ephedrine 515-64-0, Sulfisomidine 522-48-5, Tetrahydrozoline

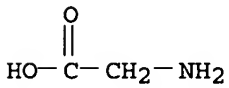
hydrochloride 550-99-2, Naphazoline hydrochloride 552-79-4, Methylephedrine 633-65-8, Berberine chloride 723-46-6, Sulfamethoxazole 835-31-4, Naphazoline 1405-86-3, Glycyrrhizinic acid 1837-57-6, Acrinol 7440-66-6, Zinc, biological studies 7773-52-6, Cetylpyridinium 9001-63-2, Lysozyme 9002-89-5, Polyvinyl alcohol 9004-61-9, Hyaluronic acid 9007-28-7, Chondroitin sulfate 9082-07-9, Sodium chondroitin sulfate 13946-02-6, Iproheptine 14007-45-5, Potassium aspartate 15686-51-8, Clemastine 16110-51-3, Cromoglycic acid **25718-94-9D**, Polyglycine, alkylaminoethyl derivs **25734-27-4D**, Polyglycine, alkylaminoethyl derivs 34580-13-7, Ketotifen 50847-11-5, Ibudilast 53902-12-8, Tranilast 58581-89-8, Azelastine 68302-57-8, Amlexanox 68797-35-3, Dipotassium Glycyrrhizinate 69372-19-6, Pemirolast 70458-96-7, Norfloxacin 79516-68-0, Levocabastine 82419-36-1, Ofloxacin 87233-61-2, Emedastine 94055-76-2, Suplatast (tosylate) 112504-30-0, Azulene sulfonic acid 113806-05-6, Olopatadine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mucosal compns. containing active agents and cooling agents containing caffeine derivs.)

IT **25718-94-9D**, Polyglycine, alkylaminoethyl derivs
25734-27-4D, Polyglycine, alkylaminoethyl derivs
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mucosal compns. containing active agents and cooling agents containing caffeine derivs.)

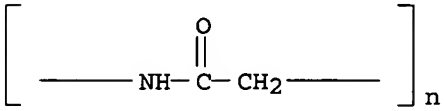
RN 25718-94-9 HCAPLUS
CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6
CMF C2 H5 N O2



RN 25734-27-4 HCAPLUS
CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



L90 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:788822 HCAPLUS
DN 135:348876
ED Entered STN: 31 Oct 2001
TI Method and agents for sensory improvement due to cooling agents
IN Matsushima, Hiroaki; Okumura, Shigetoshi
PA Rohto Pharmaceutical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

IC ICM A61K031-708
ICS A61K009-06; A61K009-08; A61K031-198; A61K031-70; A61K045-08; A61K047-08; A61K047-10; A61P003-02; A61P027-02; A61P027-10; A61P027-14; A61P029-00; A61P037-08; A61P043-00; C07D473-08; C07D473-10; C07D473-12; C07H003-00; G02C013-00
CC 63-6 (Pharmaceuticals)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001302518	A2	20011031	JP 2001-39117	20010215
PRAI JP 2000-36556	A	20000215		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001302518	ICM	A61K031-708
	ICS	A61K009-06; A61K009-08; A61K031-198; A61K031-70; A61K045-08; A61K047-08; A61K047-10; A61P003-02; A61P027-02; A61P027-10; A61P027-14; A61P029-00; A61P037-08; A61P043-00; C07D473-08; C07D473-10; C07D473-12; C07H003-00; G02C013-00

OS MARPAT 135:348876
AB The invention relates to a method for improving sensory, e.g. irritation, due to cooling agent, e.g. menthol, camphor, and borneol, etc., used in a composition, especially a mucosal composition, wherein the method includes addition of caffeine, theophylline, diprophylline, theobromine, proxyphylline, pentoxifylline, and/or related compound in the composition An eye drop containing caffeine anhydride 1, l-menthol 0.02, NaCl 0.8, KCl 0.15, polysorbate 80, sodium dihydrogen phosphate 0.2, sodium chondroitin sulfate 0.1, borax 0.16, benzalkonium chloride 0.004 g, and water and pH adjusting agent q.s. to 100 mL was formulated.
ST caffeine deriv cooling agent mucosal sensory improvement; eyedrop caffeine menthol irritation prevention
IT **Skin preparations (pharmaceutical)**
(astringents; mucosal compns. containing active agents and cooling agents and sensory-improving agents)
IT Contact lenses
(composition for; method and agents for sensory improvement due to cooling agents in compns.)
IT Disinfectants
(for contact lenses; method and agents for sensory improvement due to cooling agents in compns.)
IT Eye, disease
(hyperemia, treatment of; mucosal compns. containing active agents and cooling agents and sensory-improving agents)
IT Coolants
(method and agents for sensory improvement due to cooling agents in compns.)
IT Essential oils
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(method and agents for sensory improvement due to cooling agents in compns.)
IT Allergy inhibitors
Anti-inflammatory agents
Antibiotics
Antihistamines
(mucosal compns. containing active agents and cooling agents and sensory-improving agents)
IT Amino acids, biological studies

Carbohydrates, biological studies
Sulfonamides
Tocopherols
Vitamins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Drug delivery systems
(mucosal; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Eye
(muscle, controlling agent; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Drug delivery systems
(nasal; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Drug delivery systems
(ointments, ophthalmic; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT Drug delivery systems
(solns., ophthalmic; mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 76-22-2, Camphor 83-67-0, Theobromine 479-18-5, Diprophylline 507-70-0, Borneol 603-00-9, Proxyphylline 2216-51-5 6493-05-6, Pentoxifylline
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(method and agents for sensory improvement due to cooling agents in compns.)

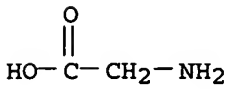
IT 50-99-7, D-Glucose, biological studies 51-43-4, Epinephrine 51-60-5, Neostigmine methylsulfate 56-84-8, L-Aspartic acid, biological studies 58-56-0, Pyridoxine hydrochloride 58-73-1, Diphenhydramine 59-42-7, Phenylephrine 60-32-2, ε-Aminocaproic acid 65-23-6, Pyridoxine 68-19-9, Cyanocobalamine 68-26-8, Retinol 79-83-4, Pantothenic acid 81-13-0, Panthenol 84-22-0, Tetrahydrozoline 97-59-6, Allantoin 107-35-7 113-92-8, Chlorpheniramine 113-92-8, Chlorpheniramine maleate 119-36-8, Methyl salicylate 121-54-0 127-69-5, Sulfisoxazole 146-14-5, Flavin adenine dinucleotide 299-42-3, Ephedrine 515-64-0, Sulfisomidine 522-48-5, Tetrahydrozoline hydrochloride 552-79-4, Methylephedrine 723-46-6, Sulfamethoxazole 835-31-4, Naphazoline 1405-86-3, Glycyrrhizinic acid 1837-57-6, Acrinol 2086-83-1, Berberine 7440-66-6, Zinc, biological studies 7773-52-6, Cetylpyridinium 9001-63-2, Lysozyme 9002-89-5, Polyvinyl alcohol 9004-61-9, Hyaluronic acid 9007-28-7, Chondroitin sulfate 9082-07-9, Sodium chondroitin sulfate 13946-02-6, Iproheptine 14007-45-5, Potassium aspartate 15686-51-8, Clemastine 16110-51-3, Cromoglycic acid **25718-94-9D**, Polyglycine, alkylaminoethyl derivs **25734-27-4D**, Polyglycine, alkylaminoethyl derivs 34580-13-7, Ketotifen 50847-11-5, Ibudilast 53902-12-8, Tranilast 58581-89-8, Azelastine 68302-57-8, Amlexanox 68797-35-3, Dipotassium Glycyrrhizinate 69372-19-6, Pemirolast 70458-96-7, Norfloxacin 79516-68-0, Levocabastine 82419-36-1, Ofloxacin 87233-61-2, Emedastine 94055-76-2, Suplatast (tosylate) 112504-30-0, Azulene sulfonic acid 113806-05-6, Olopatadine
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mucosal compns. containing active agents and cooling agents and sensory-improving agents)

IT **25718-94-9D**, Polyglycine, alkylaminoethyl derivs
25734-27-4D, Polyglycine, alkylaminoethyl derivs
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mucosal compns. containing active agents and cooling agents and

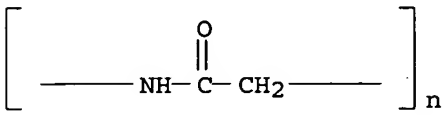
sensory-improving agents)
RN 25718-94-9 HCAPLUS
CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6
CMF C2 H5 N O2



RN 25734-27-4 HCAPLUS
CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

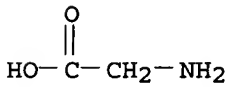


L90 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1992:54593 HCAPLUS
DN 116:54593
ED Entered STN: 21 Feb 1992
TI Papain immobilization onto porous poly(γ-methyl L-glutamate) beads
AU Hayashi, Toshio; Hirayama, Chuichi; Iwatsuki, Makoto
CS Res. Cent. Biomed. Eng., Kyoto Univ., Kyoto, 606, Japan
SO Journal of Applied Polymer Science (1992), 44(1), 143-50
CODEN: JAPNAB; ISSN: 0021-8995
DT Journal
LA English
CC 7-7 (Enzymes)
AB Water-insol. papain was prepared by immobilizing papain onto the surface of porous poly(γ-Me L-glutamate) (PMLG) beads with and without spacer. The mode of the immobilization between papain and porous PMLG beads was covalent fixation. The relative activity and the stability of the immobilized papain was investigated. The retained activity of the papain covalently immobilized by the azide method was found to be excellent toward a small ester substrate, N-benzyl L-arginine Et ester (BAEE), compared with that of the peptide binding method. The values of the Michaelis constant Km and the maximum reaction velocity Vm for free and immobilized papain on the PMLG beads were estimated The apparent Km was larger for immobilized papain than for the free enzyme, while Vm was smaller for the immobilized papain. The initial enzymic activity of the covalently immobilized papain remained approx. unchanged with storage time, when the batch enzyme reaction was performed repeatedly, indicating the excellent durability.
ST papain immobilization polymethyl glutamate; methyl glutamate polymer papain immobilization
IT Kinetics, enzymic
(of inactivation, of papain and immobilized derivs. by temperature)
IT Conformation and Conformers
Michaelis constant
(of papain, immobilization effect on)

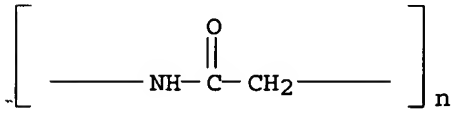
IT Immobilization, biochemical
(of papain, on poly(methylglutamate) porous beads)
IT 9001-73-4, Papain
RL: USES (Uses)
(immobilization of, on porous poly(methylglutamate) beads, activity and stability response to)
IT 25036-43-5D, Poly(γ-methyl-L-glutamate), acyl azides and oligoglycine conjugates 25086-16-2D, Poly(γ-methyl-L-glutamate), acyl azides and oligoglycine conjugates
RL: USES (Uses)
(immobilization on porous beads of, of papain)
IT **25718-94-9DP**, conjugates with poly(γ-methyl-L-glutamate)
25734-27-4DP, Poly[imino(1-oxo-1,2-ethanediyl)], conjugates with poly(γ-methyl-L-glutamate)
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and papain immobilization on porous beads of)
IT 971-21-1 , BAEE
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with papain and immobilized derivs., kinetics of)
IT **25718-94-9DP**, conjugates with poly(γ-methyl-L-glutamate)
25734-27-4DP, Poly[imino(1-oxo-1,2-ethanediyl)], conjugates with poly(γ-methyl-L-glutamate)
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and papain immobilization on porous beads of)
RN 25718-94-9 HCAPLUS
CN Glycine, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 56-40-6
CMF C2 H5 N O2



RN 25734-27-4 HCAPLUS
CN Poly[imino(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



IT 971-21-1 , BAEE
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with papain and immobilized derivs., kinetics of)
RN 971-21-1 HCAPLUS
CN L-Arginine, N2-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

```
=> d his

     (FILE 'HOME' ENTERED AT 06:11:09 ON 12 OCT 2005)
               DEL HIS

     FILE 'REGISTRY' ENTERED AT 06:12:47 ON 12 OCT 2005
L1             STR
L2             SCR 2043
L3              47 S L1 AND L2
L4            7898 S L1 AND L2 FUL
               SAV L4 GEORGE086B/A
L5             149 S (60-18-4 OR 556-02-5 OR 556-03-6)/CRN AND L4
L6               6 S L5 AND 1/NC
L7               1 S L5 AND NA/ELS AND 2/NC
L8               1 S L5 AND 67-56-1/CRN
L9               2 S L5 AND C3H7NO2 NOT ALANINE
L10              4 S L5 AND C2H5NO2
L11           7749 S L4 NOT L5
L12             13 S L11 AND C10H13NO3
L13              4 S L12 AND CL/ELS
L14              3 S L13 AND 1/NR
L15           7736 S L11 NOT L12
L16            STR
L17             23 S L16 CSS SAM SUB=L4
L18            442 S L16 CSS FUL SUB=L4
               SAV L18 GEORGE086C/A
L19            371 S L18 AND C2H5NO2
L20            204 S L19 AND NR>=1
L21              4 S L5 AND L20
L22            167 S L19 NOT L20
L23             12 S L22 AND 1/NC
L24              2 S L23 NOT (D/ELS OR 15N OR LABELED OR 13C#)
L25             11 S L22 AND (CL OR BR)/ELS  AND 2/NC
L26              2 S L25 AND (BRH OR CLH) NOT D/ELS
L27              7 S L22 AND C3H7NO2 AND C2H5NO2 AND 2/NC
L28              1 S L27 NOT ALANINE
L29            SCR 2068
L30             50 S L29 SAM SUB=L4
L31           3208 S L29 FUL SUB=L4
               SAV L31 GEORGE086D/A
L32           1632 S L31 NOT (C2H4O OR C3H6O)
L33            305 S L32 AND 1/NR AND 46.150.18/RID
L34              5 S L33 AND C9H9NO2
L35              4 S L34 NOT ACETYL
L36            300 S L33 NOT L34
L37             77 S L36 AND 4 HYDROXY
L38              1 S L37 AND C11H12N2O3
L39            223 S L36 NOT L37
L40           1327 S L32 NOT L33-L39
L41            665 S L40 AND NR>=1
L42            662 S L40 NOT L41
L43            189 S L42 AND 1/N
L44            156 S L43 NOT (S OR P OR SI)/ELS
L45             55 S L44 AND (C6H11NO OR C5H9NO OR C3H5NO OR C4H7NO OR C2H3NO)
L46             48 S L45 AND 1/NC
L47             13 S L46 AND ("(C6H11NO)N" OR "(C5H9NO)N" OR "(C4H7NO)N" OR "(C3H5
L48              6 S L47 NOT (LABELED OR D/ELS OR 15N OR 13C)
L49            473 S L42 NOT L43
L50              9 S L49 AND (C5H8N2O2 OR C7H11N3O3)
               SEL RN 3 9
```

```
L51            2 S E1,E2
L52           31 S L6-L9,L14,L24,L26,L28,L35,L38,L48,L51
                 SAV L52 GEORGE086E/A
                 ACT GEORGE086/A
                ---------
L53 (         66)SEA FILE=REGISTRY ABB=ON  PLU=ON  C8H14N4O5/MF
L54 (         59)SEA FILE=REGISTRY ABB=ON  PLU=ON  C9H16N4O5/MF
L55 (        125)SEA FILE=REGISTRY ABB=ON  PLU=ON  (L53 OR L54)
L56 (         61)SEA FILE=REGISTRY ABB=ON  PLU=ON  L55 AND NR>=1
L57 (         64)SEA FILE=REGISTRY ABB=ON  PLU=ON  L55 NOT L56
L58 (          3)SEA FILE=REGISTRY ABB=ON  PLU=ON  L57 AND METHYL ESTER
L59 (          8)SEA FILE=REGISTRY ABB=ON  PLU=ON  L57 AND GLYCYLGLYCYLGLYCYL
L60 (          8)SEA FILE=REGISTRY ABB=ON  PLU=ON  (L58 OR L59) NOT D/ELS
L61 (          6)SEA FILE=REGISTRY ABB=ON  PLU=ON  L60 NOT ALANINE
L62 (          2)SEA FILE=REGISTRY ABB=ON  PLU=ON  L61 NOT (145105-82-4/BI OR 18
L63 (          9)SEA FILE=REGISTRY ABB=ON  PLU=ON  C36H38N4O9/MF AND 46.150.18/R
L64 (          1)SEA FILE=REGISTRY ABB=ON  PLU=ON  L63 AND TYROSYL
L65 (          2)SEA FILE=REGISTRY ABB=ON  PLU=ON  C37H40N4O9/MF AND 46.150.18/R
L66 (          1)SEA FILE=REGISTRY ABB=ON  PLU=ON  L65 AND TYROSYL
L67 (          4)SEA FILE=REGISTRY ABB=ON  PLU=ON  (L62 OR L64 OR L66)
L68 (         17)SEA FILE=REGISTRY ABB=ON  PLU=ON  (13075-43-9/CRN OR 637-84-3/C
L69 (          6)SEA FILE=REGISTRY ABB=ON  PLU=ON  L68 NOT (CONJUGATE OR MXS/CI
L70 (          5)SEA FILE=REGISTRY ABB=ON  PLU=ON  L69 NOT ALANINE
L71            9 SEA FILE=REGISTRY ABB=ON  PLU=ON  (L67 OR L70)
                ---------
                 ACT GEORGE086A/A
                ---------
L72 (        335)SEA FILE=REGISTRY ABB=ON  PLU=ON  (556-02-5/CRN OR 556-03-6/CRN
L73 (        146)SEA FILE=REGISTRY ABB=ON  PLU=ON  L72 AND PMS/CI
L74 (          1)SEA FILE=REGISTRY ABB=ON  PLU=ON  L73 AND CH4O
L75 (         43)SEA FILE=REGISTRY ABB=ON  PLU=ON  C3H7NO2 AND L73
L76 (          2)SEA FILE=REGISTRY ABB=ON  PLU=ON  L75 NOT ALANINE
L77 (          6)SEA FILE=REGISTRY ABB=ON  PLU=ON  L73 AND C9H11NO3 AND 1/NC
L78 (          3)SEA FILE=REGISTRY ABB=ON  PLU=ON  (25667-16-7/BI OR 31724-37-5/
L79           12 SEA FILE=REGISTRY ABB=ON  PLU=ON  (L74 OR L76 OR L77 OR L78)
                ---------
L80           19 S L52 NOT L71,L79

     FILE 'HCAPLUS' ENTERED AT 07:46:43 ON 12 OCT 2005
L81          817 S L80
L82            1 S L81 AND (LOREAL? OR OREAL? OR L()OREAL?)/PA,CS
L83            1 S L81 AND (PHILIPPE M? OR PHILIPE M? OR PHILLIPPE M? OR PHILLIP
L84            1 S L82,L83
L85            5 S L81 AND COSMETIC?/SC,SX,CW,CT,BI
L86            9 S L81 AND COSMETICS+OLD,NT,PFT,RT/CT
L87            1 S L81 AND ?WRINKL?
L88           10 S L82-L87
L89            3 S L80(L)COS/RL
L90           10 S L88,L89

     FILE 'REGISTRY' ENTERED AT 07:49:09 ON 12 OCT 2005

     FILE 'HCAPLUS' ENTERED AT 07:49:36 ON 12 OCT 2005

=>
```